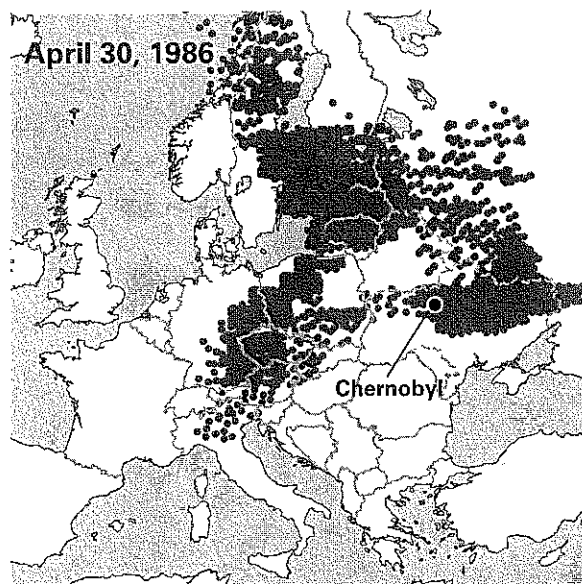


Mastering the Content

Shade in the oval by the letter of the best answer for each question.

1. What was the **major** cause of the power plant explosion at Chernobyl?
 - ☐ A. brain drain
 - ☐ B. human error
 - ☐ C. extreme weather
 - ☐ D. centrifugal force
2. Which of these was the **main** pollutant released by the Chernobyl power plant explosion?
 - ☐ A. cyanide
 - ☐ B. nitrogen oxide
 - ☐ C. nuclear radiation
 - ☐ D. sulfur dioxide
3. The map below **best** illustrates which of the following problems?

Radiation Spread from Chernobyl



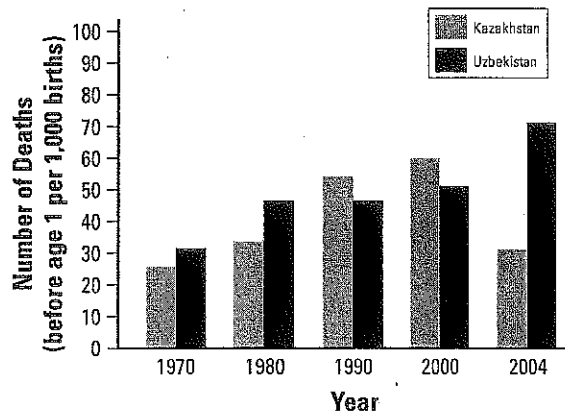
- ☐ A. general pollution
- ☐ B. non-point-source pollution
- ☐ C. toxic-chemical pollution
- ☐ D. transboundary pollution

4. Which of these is a **major** cause of acid rain?
 - ☐ A. spraying pesticides on crops
 - ☐ B. burning fossil fuels for energy
 - ☐ C. dumping sewage in river systems
 - ☐ D. using uranium to generate electricity
5. Which one of these is **not** a direct result of acid rain?
 - ☐ A. damage to monuments
 - ☐ B. dying fish
 - ☐ C. spread of disease
 - ☐ D. weakened trees
6. Power plants and factories in Europe's "Black Triangle" are doing which of these to reduce acid rain?
 - ☐ A. switching to coal as a fuel
 - ☐ B. building taller smokestacks
 - ☐ C. stopping work on windy days
 - ☐ D. installing smokestack scrubbers
7. How did the accidental spill of cyanide at a mine in Romania spread to neighboring countries?
 - ☐ A. Winds blew cyanide to other countries.
 - ☐ B. Rivers carried cyanide to other countries.
 - ☐ C. Crops poisoned with cyanide were sold in other countries
 - ☐ D. Storms dropped rain poisoned with cyanide on other countries.
8. The Tisza-Danube cyanide spill is an example of all of the following **except**
 - ☐ A. general pollution.
 - ☐ B. accidental pollution.
 - ☐ C. point-source pollution.
 - ☐ D. transboundary pollution.

Mastering the Content

Shade in the oval by the letter of the best answer for each question.

1. Water stress is **best** defined as which of the following?
☐ A. a long-term shortage of water
☐ B. the excess use of water supplies
☐ C. the poisoning of water by pollution
☐ D. a flood of water due to heavy rainfall
2. What is the **main** cause of the shrinking of the Aral Sea?
☐ A. the decreased number of fish living in the sea
☐ B. the increased use of water from the sea by local towns
☐ C. the decreased precipitation in the region around the sea
☐ D. the increased use of rivers flowing into the sea for irrigation
3. What happens to water when salinization occurs?
☐ A. It evaporates.
☐ B. It becomes salty.
☐ C. It soaks into the soil.
☐ D. It turns green with algae.
4. Which of these is the **most likely** result of environmental degradation?
☐ A. extreme weather conditions
☐ B. land use conflict
☐ C. loss of biodiversity
☐ D. spread of nuclear radiation
5. How did salinization affect fish in the Aral Sea?
☐ A. It had no effect on many species.
☐ B. Many species died out completely.
☐ C. Many species increased in number.
☐ D. New species replaced many old ones.
6. Which of these crops has contributed **most** to the creation of a new desert in the Aral Sea region?
☐ A. cotton
☐ B. rice
☐ C. sugarcane
☐ D. wheat
7. Which statement **best** describes what the graph shows about infant mortality rates in Kazakhstan and Uzbekistan?
8. What can farmers living around the Aral Sea do to help repair the environmental degradation of the sea itself?
☐ A. build more dams
☐ B. irrigate more land
☐ C. plant less thirsty crops
☐ D. increase the use of fertilizer

Infant Death Rates

How are humans affected by changes they make in the physical environment?

In Chapter 26, you explored how the shrinking Aral Sea has affected the people that live near it. Now you will use what you learned. Use the information in the table below and your knowledge of geography to complete this task.

Data Table on the Aral Sea Region

Type of data	1960	1970	1980	1990	1999
Irrigated Land (in thousands of acres)	11,140	12,720	17,090	18,770	19,510
Fish Caught (in tons)	47,400	19,200	0	0	0
Gross Domestic Product (in millions of U.S. dollars)	16	32	48	75	54
Infant Death Rate in Uzbekistan (before age 1 per 1,000 births)	84	31	47	47	45
Water for Irrigation (in cubic miles per year)	13	16	26	25	23

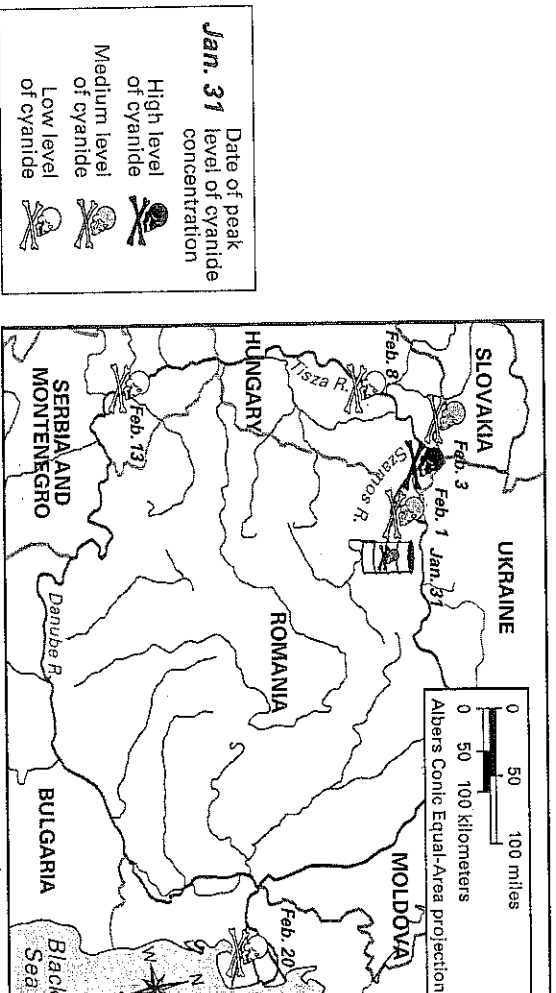
The Task: Summarizing Causes and Effects of the Aral Sea Disaster

In 1960, the Aral Sea began to shrink. Your task is to write about the causes and effects of this ecological disaster.

Step 1: Decide whether the data shown in each row of the table is a cause of the Aral Sea disaster or an effect. Write a C in the space to the left of causes. Write an E in the space to the left of effects.

Use the map and your knowledge of geography to complete the tasks below.

Cyanide Spread Along the Tisza-Danube River System

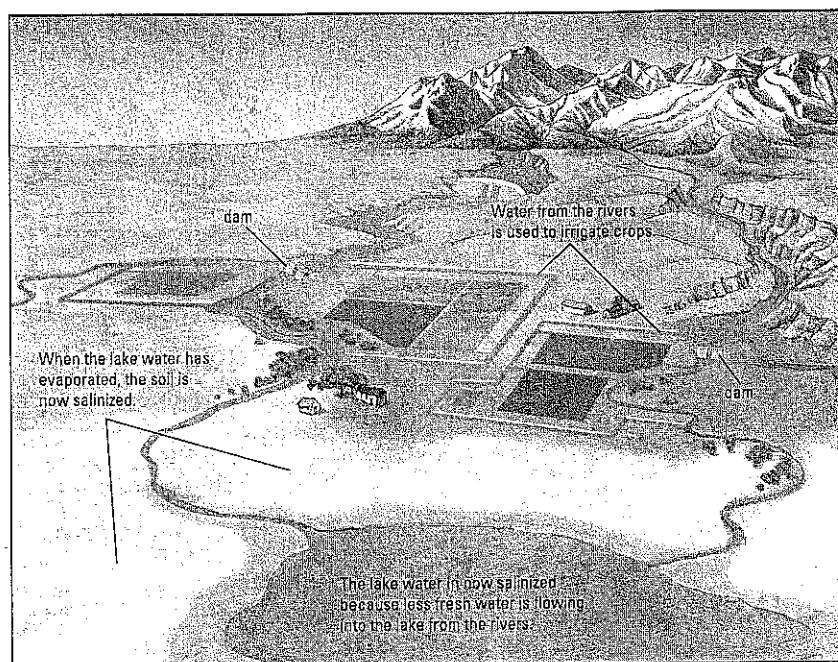


1. Use the map to complete the table. The first row has been filled in for you.

Date	River	Level of Cyanide
Jan. 31	Szamos	medium

2. Use the information above to write a generalization about what happens over time as a toxic spill moves through a river system.

Use this diagram and your knowledge of geography to complete the tasks below.



The diagram shows how an inland sea can become salinized.

- Each statement in the table below describes one step in the salinization process. Sequence the six steps from first to last. Write the number 1 by the first step, 2 by the second, and so on.

Steps in the Salinization Process

	The lake shrinks and becomes saltier.
	Water is taken from rivers to irrigate fields.
	Rivers form from mountain runoff.
	Water flowing into the lake is reduced.
	Rain falls on nearby mountains.
	Runoff washes small amounts of salt out of soil.

- Write the numbers of the six steps on the diagram where that step takes place.

Test Terms Glossary

To **sequence** means to put things in order.